HD DVB-T
High Definition Digital Receiver

USER MANUAL

StarTech HD 240 AVC/H.264 MPEG-4 HDMI

Important Safety Instructions

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

7) Do not install near any heat sources such as radiators, heat registers, stoves,or other apparatus (including amplifiers) that produce heat.

8) Operate this product only from the type of power source indicated on the label.If you are not sure of the type of power connected to your home, consult your local power company. Disconnect the unit from the mains before any maintenance or installation procedure.

9) Protect the mains cord from damage and stress.

10) Only use attachments/accessories specified by the manufacturer.

11) Unplug this apparatus during lightning storms or when unused for long periodsof time.

12) Refer all servicing to qualified service personnel. Servicing is required whenthe apparatus has been damaged in any way, including damage to the mainscord or plug, if the unit has been exposed to liquid or moisture, hasbeen dropped or is not operating correctly.

13) Do not impede the air flow into the unit by blocking the ventilation slots.

14) Attention should be drawn to the environmental aspects of battery disposal.

15) Use the apparatus in moderate climate.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

WARNING: The batteries shall not be exposed to excessive heat such as direct sun light, fire, etc.

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CAUTION
RISK OF ELECTRIC SHOCK!
DO NOT OPEN!
ATTENTION
RISQUE DE CHOC ELECTRIQUE!
NE PAS OUVRIR!

This symbol indicates that dangerous voltages constituting a risk of electric shock are present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

This symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing use only identical replacement parts.

This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of life separately from your household waste. There are separate collection systems for recycling.
For more information, please contact the local authority or your retailer where you purchased the product.

Table of Contents

Package Contents
Before installation, please check the contents of the package.
The package should contain the following items:

❶ DVB-T TV Receiver   x1 pc
❷ Remote Control   x1 pc
❸ User Manual   x1 pc
❹ AV cables (only for RCA connector)   x1 pc
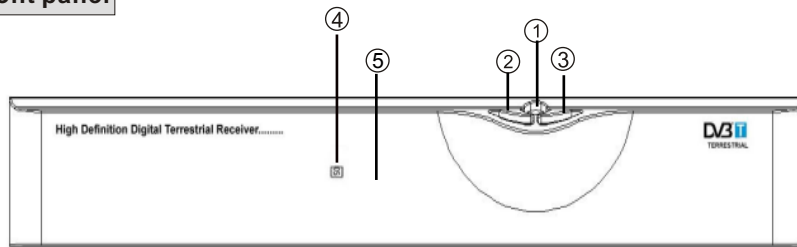
DVB-T TV Receiver   Remote Control   User Manual

AV cables (only for RCA connector)

StarTech HD 240 AVC/H.264 MPEG-4 HDMI

Front and Rear Panel

1. Front panel

High Definition Digital Terrestrial Receiver............

① POWER BUTTON: Push to turn on/off the main power supply.
② CHANNEL DOWN: Used to change channels without using the Remote Control.
③ CHANNEL UP: Used to change channels without using the Remote Control
④ REMOTE CONTROL SENSOR: Used to receive the signal from the Remote Control.
⑤ STANDBY INDICATOR: Used to indicate the power state of the Set Top Box,
the LED will turn red when the Set Top Box is in standby mode.

2. Rear panel
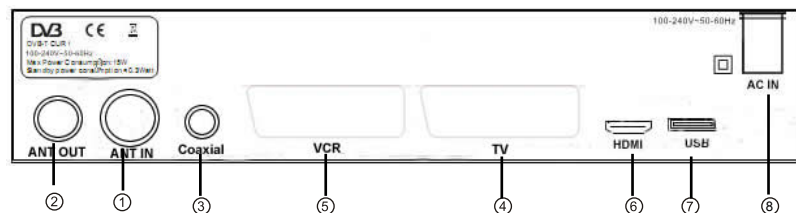
① RF IN: This socket connects to your external Aerial.
② RF LOOP THROUGH: This socket will feed the RF signal to either your TV or
another video system.
③ COAXIAL: This socket connects to the Coaxial input on your surround sound system.
④ TV : This socket connect to your TV
⑤ VCR : This sockets connect to your DVD or other STB.
⑥ HDMI: High definition audio and video output used to connect to a HDMI device
⑦ USB: This port connect to your Hard disk or other menory disk   .
⑧ AC IN: This is used to connect to your main power supply.

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Remote Control

1. MUTE: Mute or restore Audio Output.
2. INFO: Displays additional channel information.
3. TTX: Displays Teletext Information.
4. SUBTITLE: Displays subtitle language options.
5. EXIT: Exits the current Menu or returns to the previous Menu.
6. OK: Confirms an entry or selection. Displays the list of channels.
7. RIGHT / LEFT: Navigates through the Menus. Increases or decreases volume.
8. TV/RADIO: Switches from TV function to Radio function and from Radio to TV.
9. RECALL: Used to switch between the last two channels that have been viewed.
10. GOTO: Selects the play time of media.
11. PREV: Skips to the previous track during media playback.
12. NEXT: Skips to the next track during media playback.
13. REPEAT: Selects Repeat or turn off Repeat mode.
14. STOP: Stops media play.
15. STANDBY: Switches the unit in and out of Standby mode.
16. EPG: (Electronic Program Guide) Displays the EPG.
17. AUDIO: Selects an Audio Language or Audio Mode.
18. UP / DOWN: Navigates through the Menus. Selects the next or previous Channel.
19. MENU: Turns on Main Menu.
20. FAVOURITE: Turns on Favourite Menu.
21. 0-9 (Numeric Buttons): Selects a channel or setting.
22. FWD: Fast forwards during media play.
23. REV: rewind during media play.
24. PLAY: Starts or resumes media play.
25. PAUSE: Pauses media play.
26. Red button: In picture viewing mode, press to zoom in picture. In Teletext mode, it is the teletext colour button.
27. Green button: In DTV mode, press to toggle through different Resolution options. In Music playback mode, press to toggle through different repeat settings. In Teletext mode, it is the teletext colour button.
28. Yellow button: In DTV mode, press to change to different Aspect Ratios. In Teletext mode, it is the teletext colour button.
29. Blue button: In Teletext mode, it is the teletext colour button.
30. REC: Record mode,(optional)

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StarTech HD 240 AVC/H.264 MPEG-4 HDMI
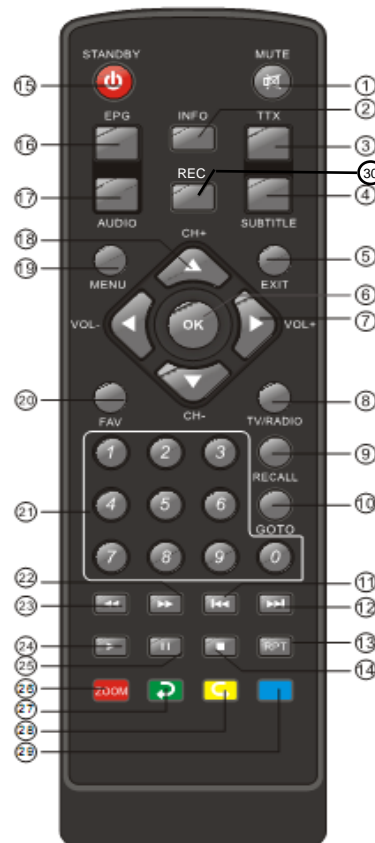
Using the Remote Control

To use the Remote Control, point it towards the front of the Digital Set Top Box. The Remote Control has a range of up to 7 metres from the Set Top Box at an angle of up to 60 degrees.
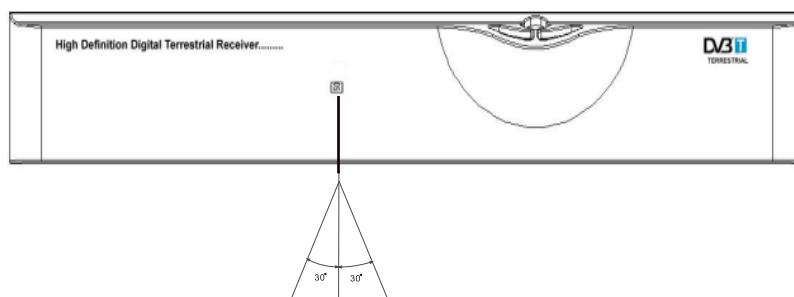
The Remote Control will not operate if its path is blocked.

Sunlight or very bright light will decrease the sensitivity of the Remote Control.

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Connecting to a Television

For a basic connection from your Set Top Box to the television, use the Composite connection outlined below.
For a higher quality connection, use the Component Video connection outlined below combined with the Composite Audio Connection.
For the highest quality connection use a direct HDMI connection, see below.

TV Aerial

DVB CE

DVB-T OUR !
100-240V~50-60Hz
Max Power Consumption 15W
Standby power consumption 0.5W

100-240V~50-60Hz

AC IN

ANT OUT   ANT IN   Coaxial   VCR   TV   HDMI   USB

HDMI

HDMI

TV
SCART
Connector

StarTech HD 240 AVC/H.264 MPEG-4 HDMI
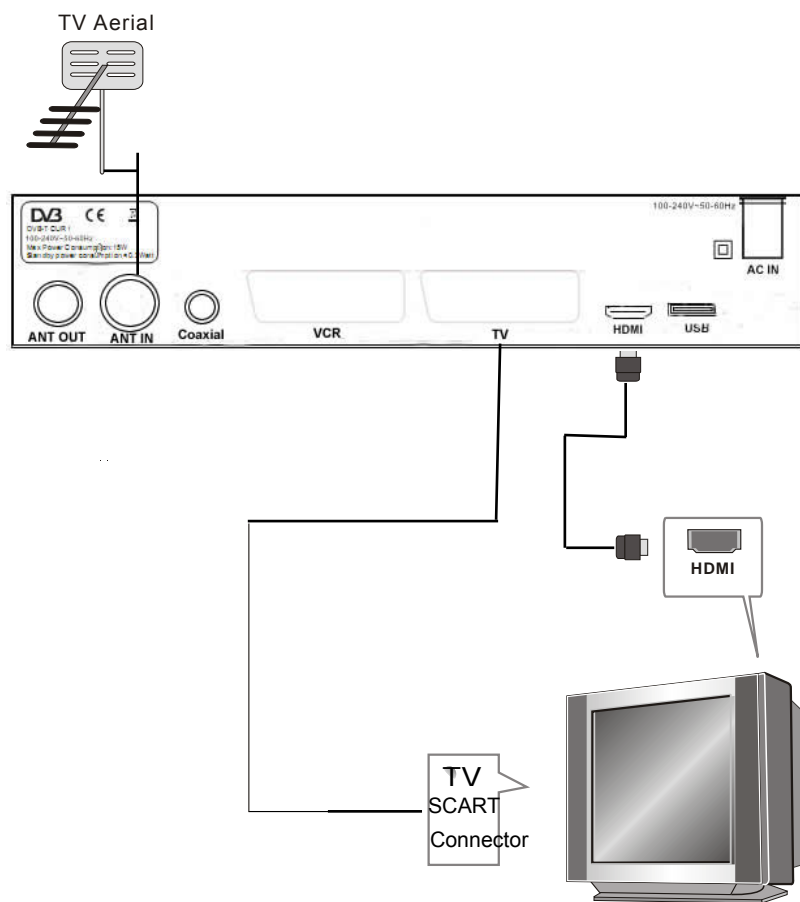
Connecting to an Audio System

StarTech HD 240 AVC/H.264 MPEG-4 HDMI
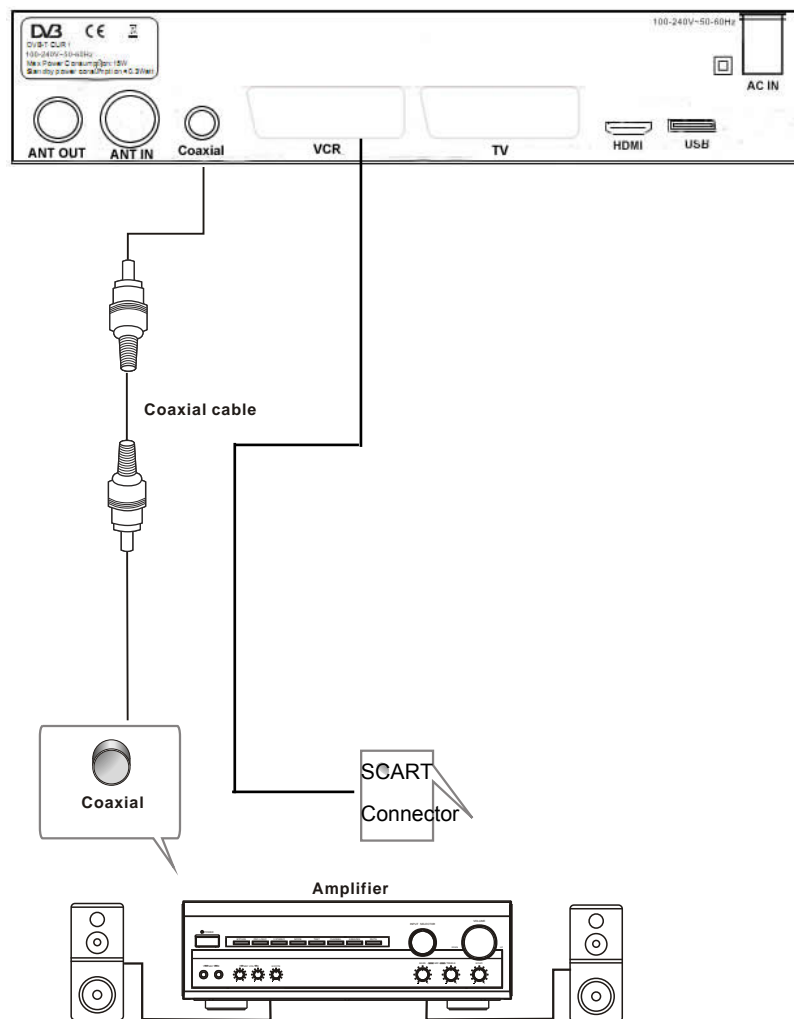
Connecting to a DVD Recorder or VCR

TV Aerial

DVB CE
DVB-T DUR I
100-240V~50-60Hz
Max Power Consumption: 15W
Standby power consumption 0.5Watt

100-240V~50-60Hz

AC IN

ANT OUT ANT IN Coaxial VCR TV HDMI USB

**ALLOWS THE RECORDER TO
RECORD DIFFERENT CHANNELS**

RF IN

**DVD RECORDER
OR VCR**

VCR
Video Cassette Recorder
NICAM DVB

R

L

VIDEO

AUDIO/VIDEO OUT

SCART

CONNECTOR

AUDIO/VIDEO IN

R

L

VIDEO

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First Time Installation

After all connections have been made properly, switch on TV and make sure the unit is connected to the Main Power. Press Power button to switch the unit on. If you are using the unit for the first time or or have restored the unit to Factory Default, the Installation Guide Menu will appear on your TV screen.

Installation Guide

OSD Language	◀ English ▶
Country	Australia
Channel Search	

EXIT EXIT   OK Confirm

(1) [OSD Language] press RIGHT/LEFT key to select a language.
(2) [Country] press RIGHT/LEFT key to select your country of residence.
(3) [Channel Search] press RIGHT or OK key to begin Automatic channel search.
(4) Once channel tuning is complete, you can start watching TV programs.

Basic Operation

(1). Program Manage Settings

To access the Menu, press the MENU button and select [Program]. using the RIGHT/LEFT keys to navigate through the menu. The Menu provides options to adjust the Program Manage Settings. Select an option and press OK or RIGHT to adjust that setting. Press the EXIT button to exit the Menu.

Program

Programme Edit	
EPG	
Sort	By LCN
LCN	On

EXIT Return   OK Confirm

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(a) Program Edit
To edit your program preferences (lock, skip, favourite, move or delete), you will need to enter the Program Edit Menu. This Menu requires a password to access. Enter the default password '000000'. The master unlock password is '888888'

Set Favourite Channels
You can create a shortlist of favourite programs that you can easily access.
Set Favourite TV or Radio program:
1. Select your desired channel then press the FAVOURITE button.
   A heart-shaped symbol will appear and the channel is marked as a favourite.
2. Repeat the previous step to select more Favourite channels.
3. To confirm and exit the Menu, press the EXIT key.

Disable Favourite TV or Radio Channel:
Select the Favorite channel and press Favorite button on the remote control to cancel.

View Favourite Channel
1. While in normal viewing mode, press Favourite button and the Favourite Menu will appear.
2. Press UP/DOWN to browse through your Favourite Channels.
3. Press OK to select your favourite channel.

Delete a TV or Radio Program
1. Select the Program and then press the BLUE button.
   A warning message will appear. Press OK to delete the channel.
2. Repeat the previous step to select more channels to delete.

Skip TV or Radio Channel
1. Select the channel you would like to skip and press the GREEN button.
   A skip symbol is displayed. The channel is marked as a skip.
2. Repeat the previous step to skip more channels.
3. To save your settings and exit the menu, press EXIT key.

Disable the Skip Channel function:
Select the Skip channel and press the GREEN button on the remote control to cancel.

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Move a TV or Radio Program
1. Select the preferred channel then press the RED button. A move symbol will appear.
2. Press UP/DOWN to move the channel.
3. Press OK to confirm.
4. Repeat the above steps to move more channels.

Lock Program
You can lock selected programs for restricted viewing.
Lock a TV or Radio channel:
1. Select the preferred channel then press the YELLOW button. A lock-shaped symbol is displayed. The channel is now marked as locked.
2. Repeat the previous step to select more channels.
3. To confirm your settings and exit the menu, press the EXIT button.
4. Press the YELLOW button to disable the locked channels function.
5. To view the locked channels, you will be required to enter either the default password '000000' or your last set password. The master unlock password is '888888'.

(b) EPG (Electronic program guide)
The EPG is an on-screen TV guide that shows scheduled programs seven days in advance for every tuned channel. Press the EPG button on the Remote Control to access the guide.
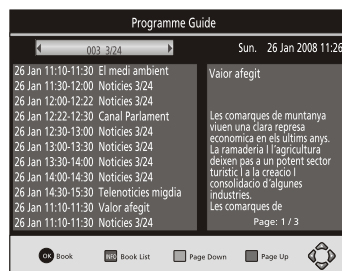
You can use the UP/DOWN key to select the preferred program. If there is more than one page of information, use the BLUE button for page up and the YELLOW button for page down.

(c) Sort
Sort your channels from the following options:
[By LCN] - Sort the channels in ascending order.
[By Service Name] - Sort the channels in alphabetical order.
[By Service ID] - Sort the channels according to the station.
[By ONID] - Sort the channels according to ONID.

(d) LCN (Logical channel number)
Set LCN on or off.

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(2). Picture Setting
To access the Menu, press MENU then select [Picture] using the RIGHT/LEFT key. The Menu provides options to adjust the video settings. Press UP/DOWN to select an option and press RIGHT/LEFT to adjust that setting. Press EXIT to exit the menu.

(a) Resolution
You can change this setting if the picture resolution does not appear to be correct. This setting is to match the most common setting for HDMI.
[480P]: for NTSC TV system.
[576P]: for PAL TV system.
[720P]: for NTSC or PAL TV system.
[1080I]: for NTSC or PAL TV system.

(b) TV Format
If the picture does not appear to be correct you can change this setting.
This should match the most common setting for TVs in your country.
[NTSC]: for NTSC system TV.
[PAL]: for PAL system TV.

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(3). Channel Search

To access the menu, press MENU and select [Search Channel] using the RIGHT/LEFT keys.
This Menu provides options to adjust the Search Channel settings.
Press UP/DOWN to select an option and press RIGHT/LEFT to adjust the settings.
Press EXIT to exit the Menu

(a) Auto Search

This option will automatically search for channels and save them once the scanning is complete. All previously saved channels and settings will be deleted.
1. Select [Auto Search] and press OK or RIGHT to start channel search.
2. To cancel channel search, press EXIT. Any channels that have been found willbe saved.

(b) Manual Search

This option allows you to scan for new channels without deleting previously saved channels and settings.
1. Select [Manual Search] then press OK or RIGHT. The channel search screenwill appear.

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2. Press the RIGHT/LEFT key to select the channel frequency.
3. Press OK to start searching channels.
If a channel is found, it is saved and added to the channels list. If channels can
not be found during searching, the unit will exit automatically.

(c) Country
Select your country of residence.

(d) Antenna Power
Enable Antenna Power if an external active antenna is connected.

(4).Time Setting
To access the Menu, press MENU then select [Time] using the RIGHT/LEFT
keys. The Menu provides options to adjust the time settings.
Press UP/DOWN to select an option and press RIGHT/LEFT to adjust the
settings. Press EXIT to exit the menu

(a) Time offset
Select auto or manual for GMT offset adjustments.
(b) Country Region
Select the Country Region when [Time Offset] is set to Auto.
(c) Time Zone
Select the Time Zone Offset when [Time Offset] is set to Manual.

(5). Option
To access the Menu, press MENU and select [Option] using the RIGHT/LEFT
keys. The menu provides options to adjust the OSD Language,
Subtitle Language and Audio Language.
Select an option and press RIGHT/LEFT to adjust the setting.
Press EXIT to exit the Menu

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(a) OSD (On Screen Display) Language
Select an OSD language.
(b) Subtitle Language
Select the preferred subtitle language.
(c) Audio Language
Select the preferred audio language for watching TV channels.
If the language is not available, the default program language will be used.
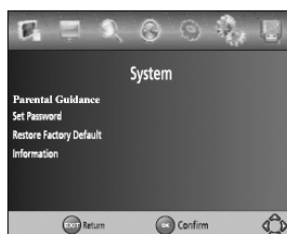**(d) Digital Audio**
Select digital audio output mode.

(6). System Setting
To access the Menu, press MENU and select [System] using the RIGHT/LEFT
keys. The menu provides options to adjust the system settings.
Press the UP/DOWN key to select an option and press RIGHT/LEFT to adjust
the setting. Press EXIT to exit the   enu .

(a) Set Password
Set or change the password for locked programs. Enter your old password or
the default password '000000'. You will then be asked to enter your new
password. Press OK button to confirm your new password.
Once it is confirmed, press EXIT to exit the Menu. The master unlock password
is '888888'

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(b) Restore Factory Default
Reset your Set Top Box to the Default Factory Settings.
In Main Menu select [Restore Factory Default] using the RIGHT/LEFT keys
and press OK or RIGHT to select. Enter your password or the default password
'000000' and press OK to confirm. This option will delete all preset channels
and settings. The master unlock password is '888888'.

(c) Information
View model, hardware and software information.

(d) Software update
If the status is set 'ON', it will scan new software from broadcast according to
your preferred time in "Start time".

(e) Start Time
This is the time that the unit will scan for software updates.

(7). USB
To access the Menu, press the **MENU** button and select [USB] using the
RIGHT/LEFT keys. The menu provides options to playback Music, Photo and
Multimedia files. It can support AVI, MP3, WMA, JPEG and BMP formats.
The unit will only support USB device with FAT32 file system.
It will not support NTFS file system.

(a) Multimedia: When a USB device is attached you can select from the Music,
Photo or Movie options in this menu using the RIGHT/LEFT keys and OK to
select. If a USB device is not connected, the warning message "No USB device
is Found" will appear.

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(b) Photo configure:
-Slide Time: adjust slide show interval to 1~8 seconds.
-Slide Mode: adjust slide show effect as mode 0~59 or random.
-Aspect Ratio:
[Keep]: Play picture in its original aspect.
[Discard]: Play picture in full screen mode.

(c) Movie Configure:
- Aspect Ratio:
[Keep]: Play movie in its original aspect.
[Discard]: Play movie in full screen mode.
- Subtitle Specific:
[Small]: Displays the subtitle as small mode.
[Normal]: Displays the subtitle as normal mode.
[Big]: Displays the subtitle as big mode.
- Subtitle BG:
[White]: Displays the subtitle in white background.
[Transparent]: Displays the subtitle in transparent background.
[Grey]: Displays the subtitle in grey background.
[Yellowgreen]: Displays the subtitle in yellowgreen background.
- Subtitle Font Color:
[Red]: Displays Subtitle in red font.
[Blue]: Displays Subtitle in blue font.
[Green]: Displays Subtitle in green font.

Note:
- We cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and assume no responsibility for any loss of data that may occur when connected to this unit.
 - With large amounts of data, it may take longer for the system to read the contents of a USB device.
- Some USB devices may not be properly recognised.
- Even when they are in a supported format, some files may not play or display depending on the content.

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Troubleshooting

Problem	Potential Reasons	What to do
No picture	Power isn't connected	Connect the power
	The power switch is not on	Switch on the power
Screen shows "No Signal"	DVB-T cable not connected	Plug in the DVB-T cable
	Aerial cable is faulty	Check aerial cable and connections
No sound from speaker	No or incorrect connection with audio cable	Connect the audio cable correctly
	Sound on mute	Turn off mute function
Only sound, no image on the screen	No or incorrect connection with AV cable	Make sure cables are connected correctly
	The program is a radio program	Press <TV/RADIO> key to shift into TV mode
Remote Control is not responding	The battery is exhausted	Change battery
	Remote Control is not facing or close enough to the Set Top Box	Adjust the position of the Remote Control and move closer to the unit
Picture is breaking up	The signal is too weak	Check aerial cable and connections

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StarTech HD 240 AVC/H.264 MPEG-4 HDMI

Technical Specifications

Item	Sub Item	Parameter
Tuner	Input Frequency	170~230MHz 470~860MHz
	RF Input level	-25~-82dBm
	IF Bandwidth	7MHz and 8MHz
	Modulation	QPSK,16QAM,64QAM
Video	Decoder Format	MPEG4 AVC/H.264 HP@L4 MPEG2 MP@ML.HL
	Output Format	576P , 720P, 1080i, 4:3 and 16:9
	Output Port	HDMI(V1.3C), scart
Audio	Decoder Format	MPEG-1 (layer1&2&3), WMA, AC3
	Audio output	Coaxial, Scart,
USB 2.0	Supported Capacity	160GB
	Supported Media	MP3, WMA, JPEG, BMP, AVI
Power	Supply Voltage	100-240V~ 50/60Hz
	Maximum Power Consumption	8W
	Standby Power Consumption	< 1W
Weight	1.6 kgs	
Size	248*150*38mm	

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